



JOHN HUNTER HEALTH & INNOVATION PRECINCT
SSDA
ARCHITECTURAL DESIGN STATEMENT - RESPONSE TO SUBMISSIONS

RESPONSE TO SUBMISSIONS

The following table provides references to specific sections contained within this Architectural Statement which addresses the SEAR’s requirements.

Agency	Submission	Relevant Section
Department of Planning	Additional Information	
	4. Provide the following additional information:	
	a plan of the proposed new road network in a wider context including the Newcastle Inner City Bypass and interchange and Lookout Road.	1.0 Environmental Analysis & Site Layout
	a land use zoning plan with an overlay showing the development footprint and associated roadworks.	1.0 Environmental Analysis & Site Layout
	a plan showing the existing cycling and bushwalking tracks in the vicinity of the site.	1.0 Environmental Analysis & Site Layout
	5. Update the architectural plans to include:	
	existing loading docks/logistics area to be retained.	Appended drawings reflect recommendations
	dimensions on the elevations/sections for the new hospital building and any new structures/link bridge/canopy.	Appended drawings reflect recommendations
	Active Transport Considerations - recommendation	
Transport for NSW	Prior to the issue of any Construction Certificate, the provision of bicycle parking and end of trip facilities for staff and visitors in accordance with Australian Standard AS1742.9:2018 Manual of Uniform Traffic Control Devices - Bicycle Facilities, and Cycling Aspects of Austroads Guides including:	1.0 Environmental Analysis & Site Layout
	a. Locate bicycle parking and storage facilities in secure, convenient, accessible areas close to the main entries incorporating adequate lighting and passive surveillance and in accordance with Austroads guidelines.	Appended drawings reflect recommendations
	b. End of trip facilities should also include lockers, showers and safe bike storage.	Appended drawings reflect recommendations
Transport for NSW	Public Transport Considerations	
	Comment	Appended drawings reflect recommendations
	The proposal discusses public buses and community transport sharing the bus stops for stopping and short term layover. Only public buses are permitted to stop at bus stops. As such arrangements for community bus should be managed separately.	
	Recommendation	
	It is requested the applicant re-evaluate the provision of community buses locations and provide diagrams to illustrate potential parking for community buses.	Appended drawings reflect recommendations
	Comment	
	In addition to the above, in order for the bus stops to function effectively the following bus draw-in and draw-out lengths need to be observed (ref: Guidelines for Bus Layover Parking). Based on the supplied diagrams TfNSW is unable to determine if these have been considered.	
	Recommendation	
	It is requested the applicant provide detailed drawings illustrating the location of proposed bus stops within the projects boundary demonstrating draw-in and draw-out lengths are met to the Customer Strategy and Technology.	

Agency	Submission	Relevant Section
	Comment	Appended drawings reflect recommendations
	The proposal assumes all point-to-point transport will be pre-booked and pick up will occur in the general pick up and drop off zones. The proposal does not allow for a dedicated taxi rank.	
	Recommendation	
	It is requested that a taxi zone be provided to ensure that future demand is met.	
NSW RFS	Construction Standards	
	Intent of measures: to provide suitable building design, construction and sufficient space to ensure that radiant heat levels do not exceed critical limits for firefighters and other emergency services personnel undertaking operations, including supporting or evacuating occupants.	3.0 Construction Standards
	4. New construction must comply with Sections 3 and 5 (BAL 12.5) Australian Standard AS3959-2018 Construction of buildings in bush fire prone areas or NASH Standard (1.7.14 updated) National Standard Steel Framed Construction in Bushfire Areas – 2014 as appropriate and Section 7.5 of Planning for Bush Fire Protection 2019.	
Government Architect	Response to State Design Review Panel Advice Letter	
	Advice provided following SDRP session 4 for the JHHIP was provided by the NSW Government Architect. Responses to each item are provided.	2.0 Response to Government Architect;s Consultation
N/A	Design Updates	
	Update Basement Car parking design with consideration to removal of the Wedge	Appended drawings
	Alternative Helicopter Landing Site - Elevated HLS from roof slab	Appended drawings
	ASB basement car park infills	Appended drawings
	Basement level 4 drop 1m	Appended drawings
	Increase APZ an additional approx. 8m south-east of ASB	Appended drawings
	Updated shadow studies	4.0 Shadow Studies

1.0 ENVIRONMENTAL ANALYSIS & OVERALL SITE LAYOUT

The following diagrams respond to submissions from the Department of Planning regarding additional information.

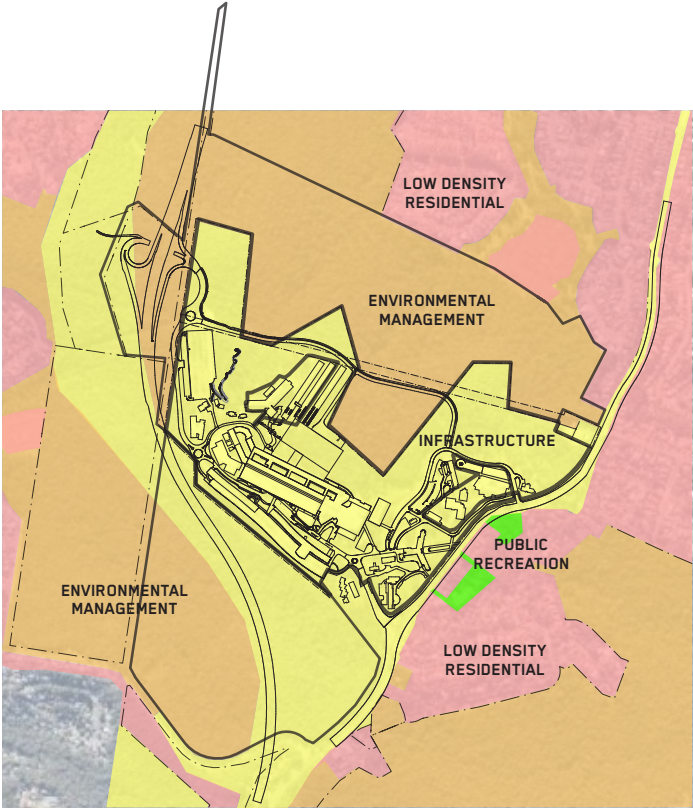


CYCLING, BUSH WALKING AND NEWCASTLE INNER CITY BYPASS LOOKOUT ROAD CONNECTION - EXTENDED CONTEXT

- Proposed Newcastle Inner-city bypass
- Proposed new cycleway
- Existing cycleway
- Existing walking trails
- End of Trip Facility
- Public Bike Parking

End of Trip facilities are provided for staff within the semi-basement ASB car park. This location offers ready access to the cycleway through Jesmond Bushland to the north, with immediate connection to the lifts of the ASB. Facility calculations have been determined based on populations for the ASB. Further detail can be found in the appended drawing set - Basement 4 plan.

Public bicycle parking is provided adjacent the main entry to the JHH. The area is provided with a canopy for weather protection, and is in sight of the entry doors, ensuring passive surveillance is provided. Further detail can be found in the appended drawing set - Level 02 plan.



LAND-USE WITH OVERLAY OF DEVELOPMENT PLAN

The above land-use diagram shows the outline of the proposed JHHIP site plan to demonstrate the extent of works falling within each land-use zone.

2.0 RESPONSES TO GOVERNMENT ARCHITECT CONSULTATION

STATE DESIGN REVIEW PANEL SESSION 4

SDRP SESSION 4, 5TH MAY 2021

The following general comment was made;

The following aspects of the proposal were supported:

- The experience and connection to light/landscape when moving through the campus – in particular the sequence from the main entry, along the John Hunter Building corridors (with improved connections to courtyard light and views), through the Campus Heart courtyards and into the primary circulation network of

the proposed ASB with its views back to the heart.

- Placement and types of windows providing views and light from patient rooms, waiting zones and staff work areas.
- The aspiration to achieve biophilic relationships throughout the campus.
- The creation of accessible ‘spaces within spaces’ for patient, visitor and staff respite and relaxation.
- Improved campus wayfinding with the new main entry canopy,

walkways and primary internal circulation systems organised around courtyards and orchestrated outlooks.

The following commentary and advice should be addressed during design development of this project and in any subsequent SDRP session.

Note: The office of the Government Architect NSW confirmed that there is no further requirement for the JHHIP project to be presented to the SDRP and wished the project well in all future stages.

GOVERNMENT ARCHITECT RECOMMENDATIONS		RESPONSE TO GOVERNMENT ARCHITECT RECOMMENDATIONS
Landscape and Connecting with Country	The design development of the various landscape elements including courtyards, raised outdoor landscaped platforms and roadside planting is generally supported, however further detail such as slab profiles and planting depths is required for the next SDRP	As the JHHIP project progresses through Design Development and later delivery phases, details will continue to be developed to ensure the design intent is progressed in an achievable manner in coordination with design team consultatnts, Contractor, and Hunter New England Local Health District (HNE LHD), particularly their facilities management and engineering teams.
	The value of landscape and committed investment into its design and complete implementation is paramount to the success of this project	The design team have and continue to work closely with the Hunter New England Local Health District (HNE LHD) team to establish a shared understanding project aspirations for an integrated landscape design for the JHHIP. The project team recognises the importance of maintaining the design intent through the delivery phases, as well as the necessity to ensure the long term success of the landscape scope, through considerations of resilience and maintainability of the design and the selected species, and working closely with the facilities management team to confirm shared expectations.
	The commitment of budget for the realisation of the biophilic aspirations of the project must remain a high project priority through to completion	The project Quantity Surveyor has been involved in all phases of the project and has worked closely with the design team to ensure all drawn concepts are accommodated within the budget. The design team will continue to develop robust design intent and achievable detailing to ensure the project aspirations are clearly articulated and maintained as the project progresses through delivery phases.
	Further and greater collaboration is needed between the landscape and design team and the Awabakal Aboriginal Community regarding species selection, bush tucker, and language integration in landscape design and signage	The design team have continued engagement with the Aboriginal stakeholder group, including site walk sessions for all members of the design and stakeholder teams to have a shared understanding of the site. This collaboration will continue with more detailed consultation regarding further integration of appropriate endemic plant species into the landscape selections and design. Discussion has also commenced with the Hunter New England Local Health District, the design team and the Aboriginal stakeholder group to integrate local language throughout the signage and wayfinding of the precinct.
	Consult with the Awabakal and with Landcare regarding repair and restoration of bush and future arrangements for access to bushland for regeneration, maintenance and ceremonial and seasonal burning.	As part of ongoing Aboriginal Stakeholder engagement sessions, the most appropriate Awabakal and Landcare groups will be identified and commence detailed consultation, particularly regarding repair and restoration of the site. Restoration of the site includes cultural burning which has been discussed in the engagement sessions as key to regeneration and maintenance of the site. Additionally, the group has commenced discussions to assist in establishing a methodology for site clearing that may see the reuse of trees for artworks, finishes or materials in the project, as well as seed collection prior to ensure what is impacted is not lost entirely.
	Ensure the planting of appropriate species along renovated / new roadways occurs early to avoid large cleared areas, post occupation	Consultation with the Aboriginal Stakeholder Group, and relevant Awabakal and Landcare groups will assist in the development of detailed planting plans including appropriate species selection for areas along new or renovated roadways to ensure the delivery of a landscape approach that is consistent with the native bushland of the site
	Explore how planting areas may have a vertical presence to internal and external façades, better integrating landscape courtyards with the surrounding architecture.	Ongoing development of the landscape approach will see further development of vertical planting particularly to the car park level façades, as well as areas where privacy to patient spaces is necessary, and those areas that may benefit from protection from wind impacts. The architecture team is also continuing to work closely with landscape architects to embed the landscape as an integrated element of the architecture, with a particular focus on the internal courtyards, considering both user needs, amenity and aesthetics.
	Provide further detail on the locations and treatments (surface, incline etc) of the proposed trails and ramps in the northern areas of the campus. Details regarding the landscape strategy for these areas should be presented at the next SDRP	The scope and overarching design intent of the landscaped areas is defined as part of the SSDA submission. As the project progresses through Design Development and future delivery phases, the detail of these areas, including public access, will be established and defined.
	Provide details regarding the Art strategy for the campus and a possible collaboration with Newcastle Art Gallery for exchange and loan of significant works. Indicate how this strategy may be embedded into the landscaped areas immediately surrounding the built forms, the trails through the greater site and within the buildings	JHH has a long and collaborative history with various external partners, notably the Newcastle Art Gallery. The intention is for the arts strategy for the JHHIP to build on these established relationships and extend the scope of arts at the precinct beyond the immediate bounds of the hospital. Definition of key locations for significant public artworks is being developed and consulted on with HNE LHD, as well as of integration of the existing semi-permanent art approach, and further development of a hospital wide arts program that is supported by provision of spaces and infrastructure as delivered by the JHHIP. Embedding arts in the landscape is a primary consideration of the project, and one particularly important in the elevated garden. As a priority this space will consider cultural ceremonial spaces as part of the delivery of an integrated arts approach, to enhance the sense of inclusion for all and as a way to weave diverse art typologies into the precinct.
	Explore the opportunity to make all nodes along the Campus Trail unique destinations and places of character to attract patients, staff and visitors to experience them	Close consultation with the various stakeholder groups is helping to defindef the character of settings along the ‘track’. As the track meanders outside and inside of the built form, it encounters and describes different experiences, from spaces for liveliness and activity in the elevated garden, to landmarks and destinations to help guide and support people on their journey through the space. There are spaces for shelter, where individuals might find some respite, and places for gathering of larger groups. The design team will continue to work hard to ensure a diversity of settings, each as an attractor for a specific need.

2.0 RESPONSES TO GOVERNMENT ARCHITECT CONSULTATION

STATE DESIGN REVIEW PANEL SESSION 4 CONTINUED

GOVERNMENT ARCHITECT RECOMMENDATIONS		RESPONSE TO GOVERNMENT ARCHITECT RECOMMENDATIONS
Architecture	This project presents an important opportunity for the built form to take advantage of its natural setting and realise a biophilic strategy. As part of this, ESD principles must be a priority for all areas of the hospital including as a minimum access to natural breeze and light where possible. The logic and arrangement of the spatial planning of the proposal is generally supported	Noted
	Provide elevations, sections and details outlining the proposed façade materiality and strategy	While the detail of elevations, sections and facade materiality were not presented at the SDRP 4, this detail is included in the SSDA architecture drawing package, and described through design intent, photomontage and precedent imagery in the SSDA Design Statement.
	Provide updated 3Ds showing the impact of proposed shading devices on views from and to the ASB	A number of images of patient spaces were presented as part of the SDRP 4 session to begin to describe the intention for visibility through the sun shading of the ASB. The design team is undertaking further development of the details of these screens to allow for greatest allowance of views out, while limiting the impacts of direct sun and glare on the internal spaces, and in consideration of privacy and overlooking.
	Indicate the extent of windows available to be operable	The design team is working closely with the HNE LHD stakeholders to establish the appropriate provision of operable windows in the development. The team acknowledges as an Acute Services Building, there are particular areas where operable windows are not appropriate, however, there are various less critical care patient spaces, staff areas and particularly pulic areas where access to operable windows are being considered.
	Reduce the footprint of plant rooms as much as possible	Design development phases of projects see the refinement of all discipline areas, notably the engineering disciplines, where finer detail is established consistent with overarching plant and services strategies. The design team is continuing to work closely to refine and optimise the footprint and impact of plant rooms across the JHHIP.
	A comprehensive active and passive approach to ESD should form part of the next SDRP presentation including details on water use/harvesting, renewable energy, and sun shading	Through SDRPs 2, 3 and 4 the design team presented high level approaches to ESD, particularly regarding the fundamentals of the design in the passive ESD considerations. Greater detail of both passive and active ESD initiatives is detailed in the SSDA Design Statement and SSDA ESD Report.

3.0 CONSTRUCTION STANDARDS

The design team acknowledge the location of the proposed JHHIP and recognise the need to comply with relevant Sections (3 and 5) of the Australian Standard AS3959-2018 Construction of buildings in bush fire prone areas or NASH Standards (1.7.14 updated) National Standard Steel Framed Construction in Bushfire Areas - 2014, as appropriate, as well as Section 7.5 of Planning for Bush Fire Protection 2019.

As the design progresses through the remaining design and delivery phases, the design team will establish the appropriate materiality, planning and detailing to achieve compliance with the above noted standards as appropriate.

4.0 SHADOW STUDIES

The following diagrams demonstrate the shadows created by the JHHIP works.

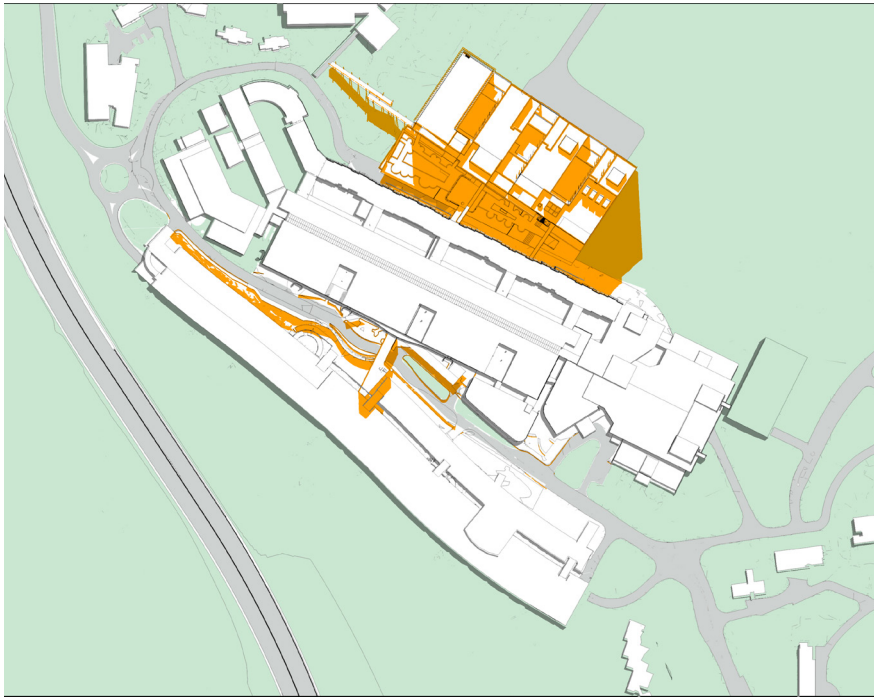
Shadow studies have been prepared to illustrate the impacts both to the new development and to the existing built form on the site. Achieving a high level of amenity in both areas is important and has been considered as the design has progressed to this stage. The rotation of the ASB footprint not only provides a greater space for the elevated garden and creates closer proximity and connection to the HMRI building adjacent, it also reduces the overall impact of the built-form of the ASB on the existing building.

Solar access and self-shading has been an important consideration as the building form has developed to achieve a balance between access to views and natural light, and the impact on building performance that heat loss and gain can have. These aspects have been reviewed and refined through close consultation of the design team, particularly the ESD and mechanical consultant.

- Shadows produced by existing
- New shadows produced by the JHHIP



9AM WINTER SOLSTICE - PROPOSED
June 20th



12PM WINTER SOLSTICE - PROPOSED
June 20th



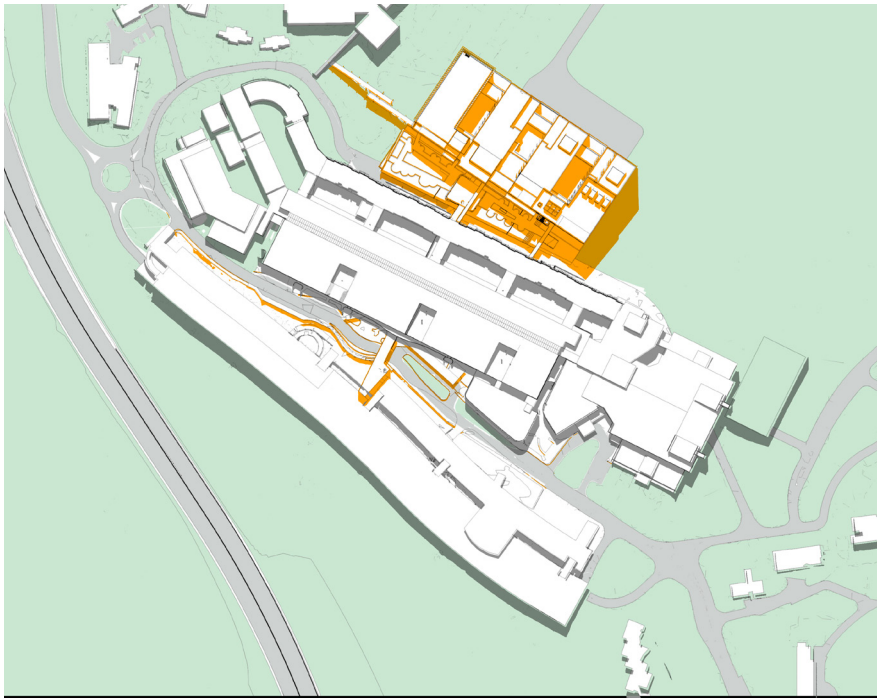
3PM WINTER SOLSTICE - PROPOSED
June 20th

4.0 SHADOW STUDIES
CONTINUED

- Shadows produced by existing
- New shadows produced by the JHHIP



9AM EQUINOX
March and September 22nd



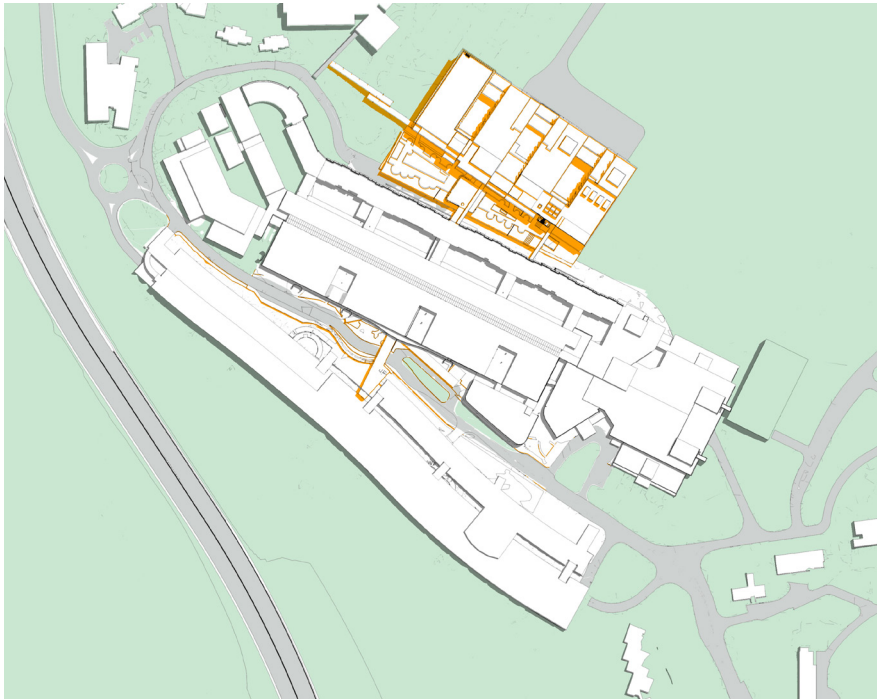
12PM EQUINOX
March and September 22nd



3PM EQUINOX
March and September 22nd



9AM SUMMER SOLSTICE
December 21st



12PM SUMMER SOLSTICE
December 21st



3PM SUMMER SOLSTICE
December 21st

